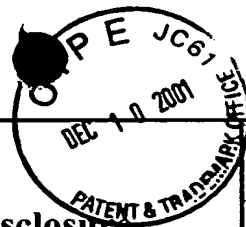


Form 1449 (Modified)

Information Disclosure Statement By Applicant

(Use Several Sheets if Necessary)



Atty Docket No.:

IMM1P044A

Application No. #4

09/678,110

Applicant:

Rosenberg et al.

Filing Date:

10/2/01

Group:

2675

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U.S. Patent Documents

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Examiner Initial		Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
WJN	*	3,919,691	11/11/75	Noll	340	172.5	5/26/71
WJN	*	4,050,265	9/27/77	Drennen et al.	64	11	8/3/76
WJN	*	4,131,033	12/26/78	Wright et al.	74	553	2/18/77
WJN	*	4,477,043	10/16/84	Repperger	244	223	12/15/82
WJN	*	4,560,983	12/24/85	Williams	340	825	9/17/82
WJN		4,692,756	9/8/87	Clark	340	709	7/5/84
WJN	*	4,706,294	11/10/87	Ouchida	381	109	6/10/86
WJN	*	4,712,101	12/8/87	Culver	340	710	12/4/84
WJN	*	4,782,327	11/1/88	Kley et al.	340	365	1/2/85
WJN	*	4,795,296	1/3/89	Jau	414	5	11/17/86
WJN	*	4,800,721	1/31/89	Cemenska et al.	60	393	2/13/87
WJN	*	4,823,634	4/25/89	Culver	74	471	11/3/87
WJN	*	4,868,549	9/19/89	Affinito et al.	340	710	5/18/87
WJN	*	4,935,728	6/19/90	Kley	340	709	11/20/87
WJN	*	4,943,866	7/24/90	Barker et al.	358	335	6/16/89
WJN	*	4,964,004	10/16/90	Barker	360	14.1	6/16/89
WJN	*	4,979,050	12/18/90	Westland et al.	360	14.1	12/2/83
WJN	*	4,983,901	1/8/91	Lehmer	318	685	4/21/89
WJN	*	5,007,300	4/16/91	Siva	74	471	1/22/90
WJN	*	5,044,956	9/3/91	Behensky et al.	434	45	1/12/89
WJN	*	5,095,303	3/10/92	Clark et al.	345	164	
WJN	*	5,107,080	4/21/92	Rosen	200	6	12/1/89
WJN	*	5,138,154	8/11/92	Hotelling	250	231.12	4/4/90
WJN	*	5,139,261	8/18/92	Openiano	273	148	9/18/91
WJN	*	5,146,566	9/8/92	Hollis, Jr. et al.	395	275	5/29/91
WJN	*	5,185,561	2/9/93	Good et al.	318	432	7/23/91
WJN	*	5,186,629	2/16/93	Rohen	434	114	8/22/91
WJN	*	5,189,355	2/23/93	Larkins et al.	318	685	4/10/92
WJN	*	5,193,963	3/16/93	McAffee et al.	414	5	10/31/90
WJN	*	5,204,600	4/20/93	Kahkoska	318	602	2/6/91

Examiner:

William J. Nelson

Date Considered:

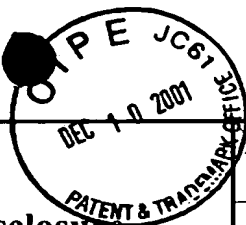
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Form 1449 (Modified)

Information Disclosure Statement By Applicant

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Atty Docket No.:

IMM1P044A

Application No.:

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Applicant:

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Examiner Initial		Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
	*	5,220,260	6/15/93	Schuler	318	561	10/24/91
	*	5,223,776	6/29/93	Radke et al.	318	568.1	12/31/90
	*	5,235,868	8/17/93	Culver	74	471	10/2/91
		5,237,327	8/17/93	Saitoh et al.	341	176	11/14/91
	*	5,254,919	10/19/93	Bridges et al.	318	560	3/22/91
	*	5,280,276	1/18/94	Kwok	345	167	7/10/92
	*	5,296,846	3/22/94	Ledley	345	161	10/5/92
	*	5,296,871	3/22/94	Paley	345	163	7/27/92
	*	5,313,230	5/17/94	Venolia et al.	345	163	7/24/92
	*	5,317,336	5/31/94	Hall	345	164	1/23/92
	*	5,355,148	10/11/94	Anderson	345	166	1/14/93
	*	5,374,942	12/20/94	Gilligan et al.	345	157	8/12/93
	*	5,381,080	1/10/95	Schnell et al.	318	566	2/18/93
	*	5,389,865	2/14/95	Jacobus et al.	318	568.11	12/2/92
	*	5,396,266	3/7/95	Brimhall	345	161	6/8/93
	*	5,398,044	3/14/95	Hill	345	145	12/7/93
	*	5,405,152	4/11/95	Katanics et al.	273	438	6/8/93
	*	5,414,337	5/9/95	Schuler	318	561	6/11/93
	*	5,457,479	10/10/95	Cheng	345	163	6/13/94
	*	5,473,344	12/5/95	Bacon et al.	345	163	
	*	5,477,237	12/19/95	Parks	345	156	7/14/94
	*	5,491,477	2/13/96	Clark et al.	341	20	9/13/93
	*	5,513,100	4/30/96	Parker et al.	364	167.01	6/10/93
	*	5,530,455	6/25/96	Gillick et al.	345	163	8/10/94
	*	5,541,379	7/30/96	Kim	200	566	1/18/95
	*	5,542,672	8/6/96	Meredith	463	37	3/17/95
	*	5,543,821	8/6/96	Marchis et al.	345	167	7/20/94
	*	5,576,727	11/19/96	Rosenberg et al.	345	179	6/5/95
	*	5,589,828	12/31/96	Armstrong	341	20	3/5/92
	*	5,589,854	12/31/96	Tsai	345	161	6/22/95

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Form 1449 (Modified)

Information Disclosure Statement By Applicant

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Atty Docket No.:

IMM1P044A

Application No.:

09/678,110

Applicant:

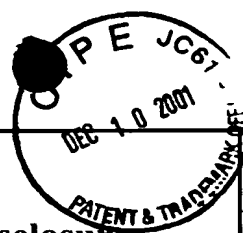
Rosenberg et al.

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Examiner Initial		Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
10/1/95	*	5,591,082	1/7/97	Jensen et al.	463	38	1/5/95
10/1/95	*	5,623,582	4/22/97	Rosenberg	395	99	7/14/94
10/1/95	*	5,625,576	4/29/97	Massie et al.	364	578	10/1/93
10/1/95	*	5,627,531	5/6/97	Posso et al.	341	22	9/30/94
10/1/95	*	5,642,469	6/24/97	Hannaford et al.	395	99	11/3/94
10/1/95	*	5,643,087	7/1/97	Marcus et al.	463	38	7/29/94
10/1/95	*	5,656,901	8/12/97	Kurita	318	436	4/21/95
10/1/95	*	5,666,138	9/9/97	Culver	345	161	11/22/94
10/1/95	*	5,666,473	9/9/97	Wallace	345	420	10/8/92
10/1/95	*	5,691,747	11/25/97	Amano	345	167	12/19/94
10/1/95	*	5,691,898	11/25/97	Rosenberg et al.	364	190	3/28/96
10/1/95		5,696,537	12/9/97	Solhjell	345	164	6/20/91
10/1/95	*	5,709,219	1/20/98	Chen et al.	128	782	8/1/96
10/1/95	*	5,712,725	1/28/98	Faltermeier et al.	345	164	
10/1/95	*	5,714,978	2/3/98	Yamanaka et al.	345	157	12/5/95
10/1/95	*	5,721,566	2/24/98	Rosenberg et al.	345	161	6/9/95
10/1/95	*	5,724,068	3/3/98	Sanchez et al.	345	161	9/7/95
10/1/95	*	5,724,106	3/3/98	Autry et al.	345	734	
10/1/95	*	5,734,373	3/31/98	Rosenberg et al.	345	161	12/1/95
10/1/95	*	5,736,978	4/7/98	Hasser et al.	345	173	5/26/95
10/1/95	*	5,742,278	4/21/98	Chen et al.	345	156	11/1/95
10/1/95	*	5,745,057	4/28/98	Sasaki et al.	341	35	9/24/96
10/1/95	*	5,749,577	5/12/98	Couch et al.	273	148	5/31/95
10/1/95	*	5,754,023	5/19/98	Rosten et al.	318	561	10/22/96
10/1/95	*	5,755,577	5/26/98	Gillio	434	262	7/11/96
10/1/95	*	5,760,764	6/2/98	Martinelli	345	160	12/13/95
10/1/95	*	5,767,839	6/16/98	Rosenberg	345	161	3/3/95
10/1/95	*	5,781,172	7/14/98	Engel et al.	345	164	
10/1/95	*	5,787,152	7/28/98	Freadman	379	88.01	
10/1/95	*	5,790,108	8/4/98	Salcudean et al.	345	184	10/23/92

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Form 1449 (Modified)

Information Disclosure Statement By Applicant

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Atty Docket No.:

IMM1P044A

Application No.:

09/678,110

Applicant:

Rosenberg et al.

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Examiner Initial		Patent No.	Date	Patentee	Class	Sub- Class	Filing Date
	*	5,805,140	9/8/98	Rosenberg et al.	345	161	11/17/95
	*	5,808,568	9/15/98	Wu	341	20	
	*	5,808,603	9/15/98	Chen	345	157	2/6/97
		5,821,921	10/13/98	Osborn et al.	345	157	8/9/96
	*	5,823,876	10/20/98	Unbehand	463	37	5/3/96
	*	5,825,308	10/20/98	Rosenberg	341	20	11/26/96
	*	5,831,408	11/3/98	Jacobus et al.	318	568.11	5/12/97
		5,831,593	11/3/98	Rutledge	345	156	1/16/96
	*	5,841,428	11/24/98	Jaeger et al.	345	184	9/20/96
	*	5,889,506	3/30/99	Lopresti et al.	345	158	10/25/96
	*	5,889,670	3/30/99	Schuler et al.	364	186	1/11/96
		5,897,437	4/27/99	Nishiumi et al.	463	47	10/8/96
	*	5,912,661	6/15/99	Siddiqui	345	166	
		5,914,705	6/22/99	Johnson et al.	345	163	2/9/96
	*	5,944,151	8/31/99	Jakobs et al.	188	267.1	7/9/96
		5,956,016	9/21/99	Kuenzner et al.	345	156	3/19/97
	*	5,959,613	9/28/99	Rosenberg	345	161	11/13/96
		5,973,670	10/26/99	Barber et al.	345	157	12/31/96
	*	5,990,869	11/23/99	Kubica et al.	345	163	2/19/97
		6,001,014	12/14/99	Ogata et al.	463	37	9/30/97
		6,088,017	7/11/00	Tremblay et al.	345	156	4/24/98
		6,100,874	8/8/00	Schena et al.	345	157	6/24/97
		6,154,201	11/28/00	Levin et al.	345	184	10/26/98
		6,166,723	12/26/00	Schena et al.	345	184	11/7/97
		6,184,868	2/6/01	Shahoian et al.	345	161	9/17/98
		6,225,976	5/1/01	Yates et al.	345	156	10/30/98
		6,256,011	7/3/01	Culver	345	157	12/1/98
		6,300,938	10/9/01	Culver	345	156	4/12/99

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Date Considered:

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Form 1449 (Modified) Information Disclosure Statement By Applicant <i>(Use Several Sheets if Necessary)</i>	Atty Docket No.: IMM1P044A	Application No.: 09/678,110
	Applicant: Rosenberg et al.	
	Filing Date: 10/2/01	Group: 2675

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Foreign Patent or Published Foreign Patent Application

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Examiner: <u>Alvan D. Gorn</u>	Date Considered: <u>03/25/02</u>
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Form 1449 (Modified)

Information Disclosure Statement By Applicant

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Atty Docket No.:

IMM1P044A

Application No.:

09/678,110

Applicant:

Rosenberg et al.

Filing Date:

10/2/01

Group:

2675

Other Documents

Examiner Initial	Author, Title, Date, Place (e.g. Journal) of Publication
10/2/01	* Akamatsu et al., "Multimodal Mouse: A Mouse-Type Device with Tactile & Force Display," 1994, Presence, Vol. 3, pg. 73-80.
	* Ellis et al., "Design & Evaluation of a High-Performance Prototype Planar Haptic Interface," 1993, ASME, Vol. 49, pg. 55-64.
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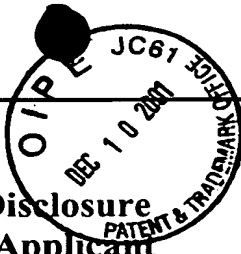
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Form 1449 (Modified)

**Information Disclosure
Statement By Applicant**

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Atty Docket No.:
IMM1P044A

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Applicant:
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Group:
2675

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Examiner Initial	Author, Title, Date, Place (e.g. Journal) of Publication
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	* Rosenberg, L., "The Use of Virtual Fixtures to Enhance Operator Performance in Time Delayed Teleoperation," 1993, Wright-Patterson AFB, pgs. 1-45.
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Examiner:

Michael DeLeon

Date Considered:

2/25/02

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.